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year are Dean E. A. Burnett, of Nebraska, chairman; Director W. R. Dodson, of Louisiana, secretary; and W. H. Beal, of the Office of Experiment Stations, recording secretary.

The section on extension work held a joint session with the American Association of Farmers' Institute Workers, at which Dr. A. C. True took up the question of the use of the Smith-Lever fund for farmers' institutes as a phase of extension work. In this he drew attention to the strictly educational character of the extension work contemplated by the act and the great stress laid on practical demonstrations. The farmers' institutes, therefore, come within the provisions of the law only so far as they may be agencies through which the colleges can carry on work of this type. Where the institute system is directly connected with the colleges it is believed that they may be easily modified and restricted in scope so as to give them a distinctive place in the extension system. In states where the institutes are under the direction of other agencies, their maintenance apparently does not come within the provisions of the law, though there may be cooperation and participation by the college staffs. The eventual establishment of a county agent system will also affect the situation. Conditions as to farmers' institute administration at present vary so widely in different states that apparently the first need is a standardization of the institute.

The relation of farmers' institutes to organized extension agencies was also discussed by G. I. Christie, of Indiana. He believed that the institute is fulfilling a practical need but should be correlated with other extension work and brought under the supervision of the colleges.

As an example of a model farmers' institute address, Director C. E. Thorne, of Ohio, gave a paper on "Maintaining Crop Production." Former Dean L. H. Bailey, of Cornell University, closed the joint session with an address on "The Present Responsibility of the Rural People." This had special reference to the conditions brought about by the European war and emphasized the political responsibility of rural people in the progress of the nation.

The extension section also took up the problem of placing county agents in effective touch with farmers. C. B. Smith, of the States Relations Committee, indicated as among the essentials the employment of a well-trained representative, the making of a complete survey of the agricultural conditions, and the securing of the cooperation of the existing organizations, working through groups wherever possible. C. R. Titlow, of West Virginia, also advocated the utilizing of existing organizations, both official and non-official, and presented a chart showing graphically the correlation of the various agencies.

C. D. Jarvis, of Connecticut, discussed the planning of extension work by means of definite written projects, favoring in addition to the federal requirements a seasonal schedule for workers. K. L. Hatch, of Wisconsin, submitted a report from the committee on the training of extension teachers, advocating the provision of technical training along the special line of prospective extension work and instruction in the art of teaching. He suggested that the time necessary for this training might be secured by eliminating requirements of foreign languages and mathematics. Teachers of approved ability in secondary agricultural schools were suggested as a promising source of supply for extension work. The officers elected for the ensuing year were R. D. Hetzel, of Oregon, chairman; C. R. Titlow, secretary, and John Hamilton, of Pennsylvania, recording secretary. HOWARD L. KNIGHT

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#### THE CONVOCATION WEEK MEETING OF SCIENTIFIC SOCIETIES

THE American Association for the Advancement of Science and the national scientific societies named below will meet at Philadelphia, during convocation week, beginning on December 28, 1914:

*American Association for the Advancement of Science.*—President, Dr. Charles W. Eliot, Harvard University; retiring president, Professor Edmund B. Wilson, Columbia University; permanent secretary, Dr. L. O. Howard, Smithsonian Institution, Washington, D. C.; general secretary,

Professor William A. Worsham, Jr., State College of Agriculture, Athens, Ga.; secretary of the council, Mr. Henry Skinner, Academy of Natural Sciences, Logan Square, Philadelphia, Pa.

*Section A—Mathematics and Astronomy.*—Vice-president, Professor Henry S. White, Vassar College; secretary, Professor Forest R. Moulton, University of Chicago, Chicago, Ill.

*Section B—Physics.*—Vice-president, Professor Anthony Zeleny, University of Minnesota; secretary, Dr. W. J. Humphreys, U. S. Weather Bureau, Washington, D. C.

*Section C—Chemistry.*—Vice-president, Provost Edgar F. Smith, University of Pennsylvania; secretary, Dr. John Johnston, Geophysical Laboratory, Washington, D. C.

*Section D—Mechanical Science and Engineering.*—Vice-president, Albert Noble, New York; secretary, Professor Arthur H. Blanchard, Columbia University, New York City.

*Section E—Geology and Geography.*—Vice-president, Professor U. S. Grant, Northwestern University; secretary, Professor George F. Kay, University of Iowa.

*Section F—Zoology.*—Vice-president, Professor Frank R. Lillie, University of Chicago; secretary, Professor Herbert V. Neal, Tufts College, Mass.

*Section G—Botany.*—Vice-president, Dr. G. P. Clinton, Connecticut Agricultural Experiment Station; secretary, Professor W. J. V. Osterhout, Harvard University, Cambridge, Mass.

*Section H—Anthropology and Psychology.*—Vice-president, Dr. Clark Wissler, American Museum of Natural History; secretary, Professor George Grant MacCurdy, Yale University, New Haven, Conn.

*Section I—Social and Economic Science.*—Secretary, Seymour C. Loomis, 69 Church St., New Haven, Conn.

*Section K—Physiology and Experimental Medicine.*—Vice-president, Professor Richard Mills Pearce, University of Pennsylvania; secretary, Dr. Donald R. Hooker, Johns Hopkins Medical School, Baltimore, Md.

*Section L—Education.*—Vice-president, Professor Paul H. Hanus, Harvard University; secretary, Dr. Stuart A. Courtis, Liggett School, Detroit, Mich.

*Section M—Agriculture.*—Vice-president, Professor L. H. Bailey, Cornell University; secretary, Dr. E. W. Allen, U. S. Department of Agriculture, Washington, D. C.

*The American Physical Society.*—Convocation

Week. President, Professor Ernest Merritt, Cornell University; secretary, Professor A. D. Cole, Ohio State University, Columbus, Ohio.

*The American Federation of Teachers of the Mathematical and the Natural Sciences.*—December 29. President, Professor C. R. Mann, Carnegie Foundation, New York City; secretary, Dr. Wm. A. Hedrick, McKinley Manual Training School, Washington, D. C.

*The American Society of Naturalists.*—December 31. President, Professor Samuel F. Clarke, Williams College; secretary, Dr. Bradley M. Davis, University of Pennsylvania, Philadelphia, Pa.

*The American Society of Zoologists.*—December 29–31. President, Professor C. E. McClung, University of Pennsylvania; secretary, Dr. Caswell Grave, The Johns Hopkins University, Baltimore, Md.

*The Society of American Bacteriologists.*—December 29–31. President, Professor Charles E. Marshall, Massachusetts Agricultural College; secretary, Dr. A. Parker Hitchens, Glenolden, Pa.

*The Entomological Society of America.*—December 31–January 1. President, Professor Philip P. Calvert, University of Pennsylvania; secretary, Professor Alexander D. MacGillivray, University of Illinois, Urbana, Ill.

*The American Association of Economic Entomologists.*—December 28–31. President, Professor H. T. Fernald, Amherst College; secretary, A. F. Burgess, Melrose Highlands, Mass.

*The Geological Society of America.*—December 29–31. President, Dr. George F. Becker, U. S. Geological Survey, Washington, D. C.; secretary, Dr. Edmund Otis Hovey, American Museum of Natural History, New York City.

*The Paleontological Society.*—December 29–31. President, Dr. Henry F. Osborn, American Museum of Natural History, New York City; secretary, Dr. R. S. Bassler, U. S. National Museum, Washington, D. C.

*The Botanical Society of America.*—December 29–January 1. President, Dr. A. S. Hitchcock, U. S. Department of Agriculture; secretary, Dr. George T. Moore, Botanical Garden, St. Louis, Mo.

*The American Phytopathological Society.*—December 29–January 1. President, Dr. Haven Metcalf, U. S. Department of Agriculture; secretary, Dr. C. L. Shear, U. S. Department of Agriculture, Washington, D. C.

*American Fern Society.*—December 28–29. Secretary, Charles A. Weatherby, 749 Main St., East Hartford, Conn.

*Sullivant Moss Society*.—December 30. Secretary, Edward B. Chamberlain, 18 West 89th St., New York, N. Y.

*American Nature-Study Society*.—December 30–31. Secretary, Professor E. R. Downing, University of Chicago, Chicago, Ill.

*School Garden Association of America*.—December 29–30. President, Van Evrie Kilpatrick, 124 West 30th St., New York, N. Y.

*American Alpine Club*.—January 2. Secretary, Howard Palmer, New London, Conn.

*American Association of Official Horticultural Inspectors*.—December 29–30. Chairman, Dr. W. E. Britton, New Haven; secretary, Professor J. G. Saunders, Madison, Wis.

*The American Microscopical Society*.—December 29. President, Professor Charles Brookover, Little Rock, Ark.; secretary, T. W. Galloway, James Millikin University, Decatur, Ill.

*The American Anthropological Association*.—December 28–31. President, Professor Roland B. Dixon, Harvard University; secretary, Professor George Grant MacCurdy, Yale University, New Haven, Conn.

*The American Folk-Lore Society*.—Convocation Week. President, Dr. P. E. Goddard, American Museum of Natural History, New York City; secretary, Dr. Charles Peabody, 197 Brattle St., Cambridge, Mass.

*The American Psychological Association*.—December 30–January 1. President, Professor R. S. Woodworth, Columbia University; secretary, Professor R. M. Ogden, University of Tennessee, Nashville, Tenn.

*The Southern Society for Philosophy and Psychology*.—December 31–January 1. President, Professor John B. Watson, The Johns Hopkins University; secretary, Professor W. C. Ruediger, George Washington University, Washington, D. C.

*The American Association for Labor Legislation*.—December 28–29. President, Professor Henry R. Seager, Columbia University; secretary, Dr. John B. Andrews, 131 East 23d St., New York City.

*Society of Sigma XI*.—December 29. President, Professor J. McKeen Cattell, Columbia University; secretary, Professor Henry B. Ward, University of Illinois, Urbana, Ill.

#### ST. LOUIS

*The American Physiological Society*.—December 28–30. President, Professor W. B. Cannon, Harvard Medical School, Boston, Mass.; secretary,

Professor A. J. Carlson, University of Chicago, Chicago, Ill.

*The Association of American Anatomists*.—December 28–30. President, Professor G. Carl Huber, University of Michigan; secretary, Dr. Charles R. Stockard, Cornell University Medical School, New York City.

*The American Society of Biological Chemists*.—December 28–30. President, Professor Graham Lusk, Cornell University Medical School; secretary, Professor Philip A. Shaffer, Washington University Medical School, St. Louis, Mo.

*The Society for Pharmacology and Experimental Therapeutics*.—December 28–30. President, Dr. Torald Sollmann, Western Reserve University Medical School, Cleveland, Ohio; secretary, Dr. John Auer, Rockefeller Institute for Medical Research, New York City.

*The American Society for Experimental Pathology*.—December 28–30. President, Professor Richard M. Pearce, University of Pennsylvania; secretary, Dr. George L. Whipple, San Francisco, Cal.

#### CHICAGO

*American Mathematical Society*.—December 28–29. President, Professor E. B. Van Vleck, University of Wisconsin.

*The Association of American Geographers*.—December 29–31. President, Professor A. P. Brigham, Colgate University; secretary, Professor Isaiah Bowman, Yale University, New Haven, Conn.

*The American Philosophical Association*.—December 28–30. President, Professor J. H. Tufts, University of Chicago; secretary, Professor E. G. Spaulding, Princeton, N. J.

#### PRINCETON

*The American Economic Association*.—December 28–31. President, Professor John D. Gray, University of Minnesota; secretary, Professor Allyn A. Young, Cornell University, Ithaca, N. Y.

*The American Sociological Society*.—December 28–31. President, Professor E. A. Ross, University of Wisconsin; secretary, Professor Scott E. W. Bedford, University of Chicago, Chicago, Ill.

#### NEW YORK CITY

*The American Mathematical Society*.—January 1–2. President, Professor E. B. Van Vleck, University of Wisconsin; secretary, Professor F. N. Cole, 501 West 116th St., New York City.